

CLAIMS LISTING

1. (currently amended) Method of recording data in an optical memory plate of claim 4 wherein ~~An optical memory plate providing radiation inscription of data and read-out of thus stored inscription data, characterized in that~~ said optical memory comprises a europium doped alkali metal halide storage phosphor layer, substantially free of alkaline earth metals.
2. (currently amended) Method of recording data in an optical memory plate of ~~Optical memory plate according to claim 1 claim 4,~~ wherein said europium doped alkali metal halide phosphor layer, substantially free of alkaline earth metals is a CsBr:Eu phosphor layer.
3. (currently amended) Method of recording data in an optical memory plate of ~~Optical memory plate according to claim 2 claim 4,~~ wherein said CsBr:Eu phosphor layer is a binderless needle-shaped CsBr:Eu phosphor layer.
4. (currently amended) Method of recording data in an optical memory plate by the step of exposing said plate by ~~Optical memory plate according to claim 1,~~ wherein said radiation inscription proceeds with radiation having a wavelength of 400 nm or less and providing read-out.
- 5-24. (cancelled)
25. (currently amended) Method of reading-out data inscribed in an optical memory plate of claim 65 wherein said storage

phosphor layer ~~Data storage optical medium according to claim 19, wherein said optical data storage layer is overcoated on top thereof with a protective layer that is transmitting ultraviolet radiation in the wavelength range from 150 to 400 nm.~~

26. (currently amended) Method of recording data in an optical memory plate of claim 1 wherein said phosphor layer ~~Data storage optical medium according to claim 20, wherein said optical data storage layer is overcoated on top thereof with a protective layer that is transmitting ultraviolet radiation in the wavelength range from 150 to 400 nm.~~

27. (currently amended) Method of recording data in an optical memory plate of claim 2 wherein said phosphor layer ~~Data storage optical medium according to claim 21, wherein said optical data storage layer is overcoated on top thereof with a protective layer that is transmitting ultraviolet radiation in the wavelength range from 150 to 400 nm.~~

28-36. (cancelled)

37. (currently amended) Method of recording data in an optical memory plate of claim 4 wherein said inscription and read-out of said optical memory plate ~~Data storage optical medium according to claims 19, wherein said medium is suitable for use in an~~ incrypted with data from at least one application selected from the group consisting of computer system ~~industry~~, radiographic imaging systems, security system ~~industry~~, identification or verification system, and ~~protection against forgery~~ protection system.

38-48.(cancelled)

49.(currently amended) Method of recording data in an optical memory plate according to claim 4 ~~claim 1~~, by the step of exposing said plate with a radiation source selected from the group consisting of a mercury vapor lamp at 254 nm, a deuterium lamp, a xenon lamp, a krypton lamp, a quadruplicated - frequency enhanced - Nd:YAG, Nd:YFL or Nd:YVO laser, an Alexandrite laser, a dye laser, a frequency-quadruplicated diode laser and gas excimer lasers consisting of F₂ (157 nm), ArF (193 nm), KrF (248 nm), XeBr (282 nm) or XeCl (308 nm).

50-54.(cancelled)

55.(currently amended) Method of recording data in an optical memory plate of claim 4 further comprising reading-out data inscribed in an optical memory plate according to claim 4, wherein read-out of data proceeds with radiation in the ~~same~~ wavelength range of 400 nm or less ~~as inscription radiation~~.

56.(currently amended) Method of recording data in an optical memory plate of claim 61 further comprising reading-out data inscribed in an optical memory plate according to claim 5, wherein read-out of data proceeds with radiation in the ~~same~~ wavelength range of 400 nm or less ~~as inscription radiation~~.

57.(currently amended) Method of recording data in an optical memory plate of claim 62 further comprising reading-out data inscribed in an optical memory plate according to

~~claim 6~~, wherein read-out of data proceeds with radiation in the ~~same~~ wavelength range of 400 nm or less as ~~inscription radiation~~.

58.(original) Method of recording data in an optical memory plate of claim 4 further comprising reading-out data inscribed in an optical memory plate according to claim 4, wherein read-out of data proceeds with radiation in a longer wavelength range from 550 nm up to 700 nm than said inscription radiation.

59.(currently amended) Method of recording data in an optical memory plate of claim 61 further comprising reading-out data inscribed in an optical memory plate according to claim 5, wherein read-out of data proceeds with radiation in a longer wavelength range from 550 nm up to 700 nm than said inscription radiation.

60.(currently amended) Method of recording data in an optical memory plate of claim 62 further comprising reading-out data inscribed in an optical memory plate according to claim 6, wherein read-out of data proceeds with radiation in a longer wavelength range from 550 nm up to 700 nm than said inscription radiation.

61.(new) Method of recording data in an optical memory plate of claim 4 wherein radiation inscription which proceeds with radiation in the wavelength range from 150 nm up to 300 nm.

62.(new) Method of recording data in an optical memory plate of claim 4 wherein radiation inscription which proceeds with radiation in the wavelength range from 300 nm up to 400 nm.

- 63.(new) Method of reading-out data inscribed in an optical memory plate according to claim 1, by the step of exposing said plate by radiation inscription with a red laser, provided that emission in the red part of the visible spectrum appears after ultraviolet radiation.
- 64.(new) Method of reading-out data inscribed in an optical memory plate of claim 49 wherein read-out of data proceeds with radiation in the same wavelength range as radiation inscription.
- 65.(new) Method of reading-out data inscribed in an optical memory plate of claim 49 wherein read-out of data proceeds with radiation in a longer wavelength range from 550 nm up to 700 nm than said inscription radiation.
- 66.(new) Method of recording data in an optical memory plate of claim 37 wherein said inscription is an inscription of data in form of a text, including figures and characters, and a bar code.
- 67.(new) Method of recording data in an optical memory plate of claim 37 wherein said inscription of data is not erasable.